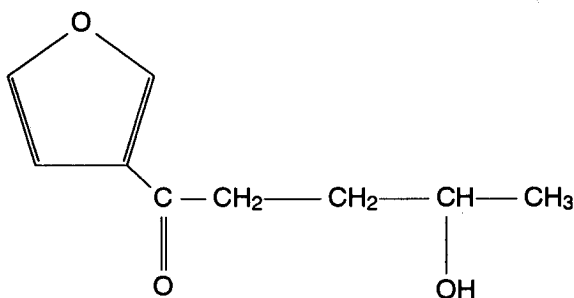


# IPOMEANOL

NSC - 349438



## Chemical Name:

1-(3-Furanyl)-4-hydroxy-1-pentanone

CAS Registry Number: 55659-41-1

Molecular Formula: C<sub>9</sub>H<sub>12</sub>O<sub>3</sub>

M.W.: 168.2

## Approximate Solubility:

(mg/mL)

Chloroform	> 100
Methanol	> 100
Water	≈ 20
10% propylene glycol, 10% EtOH in water	≈ 20
0.1 N HCl	≈ 55
0.1 N NaOH	< 3

## Stability:

### Bulk:

4-Ipomeanol is stable when stored at freezer temperatures (-18°C)

**Solution:**

Aqueous solutions are stable for at least 24 hr over a pH range of 3 to 8.

**Ultraviolet Absorption:**

(100% EtOH)

$$\lambda_{\text{max}} = 250 \pm 2 \text{ nm}$$

$$\epsilon = 3340 \pm 200$$

**High Performance Liquid Chromatography:**

**Column:** IBM C<sub>18</sub>, 250 mm x 4.5 mm i.d.

**Mobile Phase:** 30% methanol in water

**Flow Rate:** 1 mL/min

**Detection:** UV at 254 nm

**Sample Preparation:** 0.7 mg/mL in mobile phase

**Internal Standard:** *m*-nitrophenol (7 mg dissolved in 10 mL MeOH)

**Retention Volume:** 12.7 mL (NSC 349438)  
22.9 mL (I.S.)

**Optical Rotation:**

(*c* = 1.1, CCl<sub>4</sub>)

$$[\alpha]_D^{20} = 1.0 \pm 0.2^\circ$$